General and Classified Index

COMBUSTION, Volume Seventeen, July 1945 through June 1946

EDITORIALS—

		Page
An Absence of Engineers	Jan. 1946	23
Atomic Energy	Sept. 1945	33
Automatic Control for Spreader Stokers	Oct. 1945	35
Coal for Europe	Nov. 1945	33
Coal Prices Jeopardized	Mar. 1946	29
Combating Increased Production Costs	July 1945	31
Conventions Get the Green Light	Sept. 1945	33
Data Needed on Steam-Generating Equipment	Feb. 1946	31
Educational Facilities Taxed	Jan. 1946	23
High Pressure on Shipboard	Nov. 1945	33
Henry Kreisinger	June 1946	29
Information on Research	July 1945	31
It Must Not Happen Again	May 1946	23
Merchant Marine, The	May 1946	23
Moderate Drop in Energy Output	Dec. 1945	31
Montaup Unit, The	Dec. 1945	31
Obstacles to Standardization	Apr. 1946	31
Research to the Fore	Oct. 1945	35
St. Lawrence Project Up Again	Mar. 1946	29
Smoke	Aug. 1945	27

ARTICLES—

		Page
Adaptability of Fuel-Burning Equipment to Available Coals	Mar. 1946	43
A.S.M.E. Annual Meeting—*Forced Circulation, New Method of Coal Pulverization, Reducing Losses in Power Generation and Consumption, Smoke Regulations, Estimating Army Fuel Consumption, Research in the Navy, German Synthetic Liquid Fuels, Graphitization of Steel Piping, Rotary Pump Theory, Locomotive Utilization of Solid Fuels*	Dec. 1945	41
A.S.M.E. Spring Meeting to Consider Power Problems	Mar. 1946	51
America's Future Oil Supplies	July 1945	45
A Mine-Mouth, Tunnel-Type Power Plant in China. By L. C. Tao	Feb. 1946	42
A Theory of Rotary Pumps and Fluid Motors, *A.S.M.E. Annual Meeting.* By Warren E. Wilson	Dec. 1945	46
Atomic Energy, *Midwest Power Conference.* By P. W. Swain	Apr. 1946	49
Atomic Control of Steam Generation and Auxiliaries, *Midwest Power Conference.* By P. S. Dickey	Apr. 1946	50
Bituminous Coal Agreement, The	June 1946	53
Boiler Plant Serving Atomic Bomb Production. By H. M. Lowenstein	Oct. 1945	36
Central Station Power Expansion in Metropolitan (New York) Area	Nov. 1945	49
Chemical Cleaning of Boilers and Heat Exchangers	Mar. 1946	47
Cleaning Stoker-Fired Boilers	Feb. 1946	53
Combustion Control at University Power Plant	May 1946	35
Comparison of Forced- and Natural-Circulation Boilers, *A.S.M.E. Annual Meeting.* By George F. Ross and Leonard Wilkins	Dec. 1945	41
Conference Stresses Feedwater and Boiler Water Problems	Nov. 1945	43
Convenience Plus Accuracy in Heat Balance Computations. By A. H. Zerban	June 1946	33
Court Decisions Involving Engineering. By Leo T. Parker	Oct. 1945	51
Efficiencies with River Anthracite on Traveling-Grate Stokers. By Charles S. Gladden	Nov. 1945	34
Efficiency Bureau Standards. By J. R. Michel	Jan. 1946	33
Electric Drives for Steam-Electric Generating Station Auxiliaries. By W. R. Brownlee and J. A. Elzi	Jan. 1946	41
Electric Power Situation in Italy. By Giovanni Coppa-Zuccari	Sept. 1945	39
Electric Steam Generator Installation at Salem Alumina Plant. By George H. Krueger	May 1946	24
Engineers Feature Power in Plan for Control of German Industry	Oct. 1945	47
Estimating Army Fuel Consumption, *A.S.M.E. Annual Meeting.* By E. R. Biller	Dec. 1945	44
Europe's Coal Problem. By C. J. Potter	Nov. 1945	38
Evaporators and Their Operation. By George A. Fricke	Apr. 1946	39
Example Sections of a Smoke Regulation Ordnance, *A.S.M.E. Annual Meeting.* By J. F. Barkley	Dec. 1945	44
Expansion Problems Encountered in Design of Steam-Generating Units. By H. Liessenberg and M. J. Fish	Aug. 1945	28
Experience with 2000-psi, 960-F Forced Circulation at Montaup *A.S.M.E. Annual Meeting* *Operating History and Performance.* By G. U. Parks, W. S. Patterson and W. F. Ryan *Special Studies of the Feedwater-Steam System.* By W. D. Bissell, B. J. Cross and H. E. White		
Water Conditioning for 2000-Psi Pressure. By W. W. Cerna and R. K. Scott *Instruments and Control Equipment.* By W. D. Bissell and E. B. Powell	Dec. 1945	55
Extraction Turbines for Industrial Power, *Midwest Power Conference.* By L. E. Newman	Apr. 1946	52
Fabrication of Boiler Drums. By H. R. Towse *Part I—Forming*	Mar. 1946	35
Part II—Welding	Apr. 1946	43
Part III—Testing and Finishing	May 1946	36
Features of the Jennison Station, New York State Electric & Gas Corporation. By H. C. Schweikart	Dec. 1945	32
Feedwater Treatment, *Midwest Power Conference.* By Leo F. Collins	Apr. 1946	51
Fuel Handling and Oil Atomizing Features of a Small Industrial Boiler Plant. By Perry Haynes	Nov. 1945	41
The Future of Nuclear Power. By John Archibald Wheeler	Mar. 1946	35
Future Requirements and Trends in the Use of Electric Power, *Midwest Power Conference.* By H. P. Seelye	Apr. 1946	49
Gas Turbine for Locomotive Drive, The	Feb. 1946	51
Gas Turbine Under Test by the Navy	May 1946	31
German Synthetic Liquid Fuels, *A.S.M.E. Annual Meeting.* By W. C. Schroeder	Dec. 1945	45
Graphitization of Steel Piping, *A.S.M.E. Annual Meeting.* By S. L. Hoyt, R. D. Williams, A. N. Hall, A. J. Smith, John Urban, F. W. Bolton and F. Eberle	Dec. 1945	45
Grate Heat Release vs. Combustion Rate in Stoker Calculations. By H. G. Meissner	Oct. 1945	41
How the Navy Trains Boiler Operators	Jan. 1946	33
Ickes Analyzes the Fuel Situation	Aug. 1945	45
Improvements in Thermal Efficiencies with High Steam Pressures and Temperatures. By K. Baumann	Nov. 1945	39
Increase in Industrial Power from 1939 to 1945	Aug. 1945	38
Instrumentation for the Study of Furnace Performance. By A. R. Mumford	June 1946	35
Instruments and Control Equipment, *Experience with 2000-psi, 960-F Forced Circulation at Montaup,* A.S.M.E. Annual Meeting. By W. D. Bissell and E. B. Powell	Dec. 1945	61
LaMont Boilers in Great Britain *Their Development.* By G. A. Plummer *Operating Experience.* By G. A. J. Begg, W. M. Hebblethwaite and G. Cooke	Feb. 1946	45
Large Steam-Generating Unit in Russian Steel Mill	Feb. 1946	41
Linear Relationship in Gas Turbines, *Midwest Power Conference.* By J. T. Rettaliata	Apr. 1946	53
Locomotive Utilization of Solid Fuels, *A.S.M.E. Annual Meeting.* By Carroll F. Hardy, A. A. Raymond, Ralph A. Sherman, W. H. Brown, R. B. Engdahl and Kenneth A. Brown	Dec. 1945	47
Low-Pressure Ash Sluicing. By T. H. Carr	Dec. 1945	49
Magnetic Drive for Adjustable-Speed Torque Transmission. By Glenn Stangland	June 1946	30
Midwest Power Conference—*Atomic Energy, Future Requirements and Trends in the Use of Electric Power, Problems in Power Plant Design, Automatic Control of Steam Generation and Auxiliaries, Operating Experiences at the Marysville Power Plant of The Detroit Edison Co., Feedwater Treatment, Modernization of Small Power Plants, Smoke Abatement in Small Power Plants, Extraction Turbines for Industrial Power, Under-Bunker Conveyors, Where the Gas Turbine Stands Today, Linear Relationship in Gas Turbines, War Work Lends Impetus to Gas Turbine Development, St. Lawrence Power*	Apr. 1946	49
Midwest Power Conference Program	Feb. 1946	55
Modernization of Small Power Plants, *Midwest Power Conference.* By C. M. Garland	Apr. 1946	52
New Marine Gas-Turbine Plant Demonstrated	Aug. 1945	41
New Method of Coal Pulverization, *A.S.M.E. Annual Meeting.* By J. I. Yellott and A. D. Singh	Dec. 1945	42
Operating Experiences at the Marysville Power Plant of The Detroit Edison Co., *Midwest Power Conference.* By G. F. Campou	Apr. 1946	50
Operating History and Performance, *Experience with 2000-psi, 960-F Forced Circulation at Montaup,* A.S.M.E. Annual Meeting. By W. S. Patterson, G. U. Parks and W. F. Ryan	Dec. 1945	55
Operating Levels of Electric Utilities Expected to Remain Stable	July 1945	41
Ore Carrier Operates with 1450 Psi Steam Pressure. By H. F. Robinson and E. P. Worthen	Nov. 1945	47
Phenomena of Gas Flow	Sept. 1945	46
Plant Atkinson—High Pressure Addition. By E. C. Gaston	Mar. 1946	30
Power in 1946. By A. G. Christie	Feb. 1946	37
Power Plant of the Volta Redonda Steel Mill in Brazil. By Ralph D. Kircher	Sept. 1945	34
Power Plants in the Wake of Allied Bombing	July 1945	38
Power Subjects at the A.S.M.E. Spring Meeting	Apr. 1946	55

General and Classified Index

COMBUSTION, Volume Seventeen, July 1945 through June 1946

EDITORIALS—

		Page
An Absence of Engineers	Jan. 1946	23
Atomic Energy	Sept. 1945	33
Automatic Control for Spreader Stokers	Oct. 1945	35
Coal for Europe	Nov. 1945	33
Coal Prices Jeopardized	Mar. 1946	29
Combating Increased Production Costs	July 1945	31
Conventions Get the Green Light	Sept. 1945	33
Data Needed on Steam-Generating Equipment	Feb. 1946	31
Educational Facilities Taxed	Jan. 1946	23
High Pressure on Shipboard	Nov. 1945	33
Henry Kreisinger	June 1946	29
Information on Research	July 1945	31
It Must Not Happen Again	May 1946	23
Merchant Marine, The	May 1946	23
Moderate Drop in Energy Output	Dec. 1945	31
Montaup Unit, The	Dec. 1945	31
Obstacles to Standardization	Apr. 1946	31
Research to the Fore	Oct. 1945	35
St. Lawrence Project Up Again	Mar. 1946	29
Smoke	Aug. 1945	27

ARTICLES—

		Page
Adaptability of Fuel-Burning Equipment to Available Coals	Mar. 1946	43
A.S.M.E. Annual Meeting—*Forced Circulation, New Method of Coal Pulverization, Reducing Losses in Power Generation and Consumption, Smoke Regulations, Estimating Army Fuel Consumption, Research in the Navy, German Synthetic Liquid Fuels, Graphitization of Steel Piping, Rotary Pump Theory, Locomotive Utilization of Solid Fuels*	Dec. 1945	41
A.S.M.E. Spring Meeting to Consider Power Problems	Mar. 1946	51
America's Future Oil Supplies	July 1945	45
A Mine-Mouth, Tunnel-Type Power Plant in China. By L. C. Tao	Feb. 1946	42
A Theory of Rotary Pumps and Fluid Motors, *A.S.M.E. Annual Meeting.* By Warren E. Wilson	Dec. 1945	46
Atomic Energy, *Midwest Power Conference.* By P. W. Swain	Apr. 1946	49
Atomic Control of Steam Generation and Auxiliaries, *Midwest Power Conference.* By P. S. Dickey	Apr. 1946	50
Bituminous Coal Agreement, The	June 1946	53
Boiler Plant Serving Atomic Bomb Production. By H. M. Lowenstein	Oct. 1945	36
Central Station Power Expansion in Metropolitan (New York) Area	Nov. 1945	49
Chemical Cleaning of Boilers and Heat Exchangers	Mar. 1946	47
Cleaning Stoker-Fired Boilers	Feb. 1946	53
Combustion Control at University Power Plant	May 1946	35
Comparison of Forced- and Natural-Circulation Boilers, *A.S.M.E. Annual Meeting.* By George F. Ross and Leonard Wilkins	Dec. 1945	41
Conference Stresses Feedwater and Boiler Water Problems	Nov. 1945	43
Convenience Plus Accuracy in Heat Balance Computations. By A. H. Zerban	June 1946	33
Court Decisions Involving Engineering. By Leo T. Parker	Oct. 1945	51
Efficiencies with River Anthracite on Traveling-Grate Stokers. By Charles S. Gladden	Nov. 1945	34
Efficiency Bureau Standards. By J. R. Michel	Jan. 1946	33
Electric Drives for Steam-Electric Generating Station Auxiliaries. By W. R. Brownlee and J. A. Elzi	Jan. 1946	41
Electric Power Situation in Italy. By Giovanni Coppa-Zuccari	Sept. 1945	39
Electric Steam Generator Installation at Salem Alumina Plant. By George H. Krueger	May 1946	24
Engineers Feature Power in Plan for Control of German Industry	Oct. 1945	47
Estimating Army Fuel Consumption, *A.S.M.E. Annual Meeting.* By E. R. Biller	Dec. 1945	44
Europe's Coal Problem. By C. J. Potter	Nov. 1945	38
Evaporators and Their Operation. By George A. Fricke	Apr. 1946	39
Example Sections of a Smoke Regulation Ordnance, *A.S.M.E. Annual Meeting.* By J. F. Barkley	Dec. 1945	44
Expansion Problems Encountered in Design of Steam-Generating Units. By H. Liessenberg and M. J. Fish	Aug. 1945	28
Experience with 2000-psi, 960-F Forced Circulation at Montaup *A.S.M.E. Annual Meeting* *Operating History and Performance.* By G. U. Parks, W. S. Patterson and W. F. Ryan *Special Studies of the Feedwater-Steam System.* By W. D. Bissell, B. J. Cross and H. E. White		
Water Conditioning for 2000-Psi Pressure. By W. W. Cerna and R. K. Scott *Instruments and Control Equipment.* By W. D. Bissell and E. B. Powell	Dec. 1945	55
Extraction Turbines for Industrial Power, *Midwest Power Conference.* By L. E. Newman	Apr. 1946	52
Fabrication of Boiler Drums. By H. R. Towse *Part I—Forming*	Mar. 1946	35
Part II—Welding	Apr. 1946	43
Part III—Testing and Finishing	May 1946	36
Features of the Jennison Station, New York State Electric & Gas Corporation. By H. C. Schweikart	Dec. 1945	32
Feedwater Treatment, *Midwest Power Conference.* By Leo F. Collins	Apr. 1946	51
Fuel Handling and Oil Atomizing Features of a Small Industrial Boiler Plant. By Perry Haynes	Nov. 1945	41
The Future of Nuclear Power. By John Archibald Wheeler	Mar. 1946	35
Future Requirements and Trends in the Use of Electric Power, *Midwest Power Conference.* By H. P. Seelye	Apr. 1946	49
Gas Turbine for Locomotive Drive, The	Feb. 1946	51
Gas Turbine Under Test by the Navy	May 1946	31
German Synthetic Liquid Fuels, *A.S.M.E. Annual Meeting.* By W. C. Schroeder	Dec. 1945	45
Graphitization of Steel Piping, *A.S.M.E. Annual Meeting.* By S. L. Hoyt, R. D. Williams, A. N. Hall, A. J. Smith, John Urban, F. W. Bolton and F. Eberle	Dec. 1945	45
Grate Heat Release vs. Combustion Rate in Stoker Calculations. By H. G. Meissner	Oct. 1945	41
How the Navy Trains Boiler Operators	Jan. 1946	33
Ickes Analyzes the Fuel Situation	Aug. 1945	45
Improvements in Thermal Efficiencies with High Steam Pressures and Temperatures. By K. Baumann	Nov. 1945	39
Increase in Industrial Power from 1939 to 1945	Aug. 1945	38
Instrumentation for the Study of Furnace Performance. By A. R. Mumford	June 1946	35
Instruments and Control Equipment, *Experience with 2000-psi, 960-F Forced Circulation at Montaup,* A.S.M.E. Annual Meeting. By W. D. Bissell and E. B. Powell	Dec. 1945	61
LaMont Boilers in Great Britain *Their Development.* By G. A. Plummer *Operating Experience.* By G. A. J. Begg, W. M. Hebblethwaite and G. Cooke	Feb. 1946	45
Large Steam-Generating Unit in Russian Steel Mill	Feb. 1946	41
Linear Relationship in Gas Turbines, *Midwest Power Conference.* By J. T. Rettaliata	Apr. 1946	53
Locomotive Utilization of Solid Fuels, *A.S.M.E. Annual Meeting.* By Carroll F. Hardy, A. A. Raymond, Ralph A. Sherman, W. H. Brown, R. B. Engdahl and Kenneth A. Brown	Dec. 1945	47
Low-Pressure Ash Sluicing. By T. H. Carr	Dec. 1945	49
Magnetic Drive for Adjustable-Speed Torque Transmission. By Glenn Stangland	June 1946	30
Midwest Power Conference—*Atomic Energy, Future Requirements and Trends in the Use of Electric Power, Problems in Power Plant Design, Automatic Control of Steam Generation and Auxiliaries, Operating Experiences at the Marysville Power Plant of The Detroit Edison Co., Feedwater Treatment, Modernization of Small Power Plants, Smoke Abatement in Small Power Plants, Extraction Turbines for Industrial Power, Under-Bunker Conveyors, Where the Gas Turbine Stands Today, Linear Relationship in Gas Turbines, War Work Lends Impetus to Gas Turbine Development, St. Lawrence Power*	Apr. 1946	49
Midwest Power Conference Program	Feb. 1946	55
Modernization of Small Power Plants, *Midwest Power Conference.* By C. M. Garland	Apr. 1946	52
New Marine Gas-Turbine Plant Demonstrated	Aug. 1945	41
New Method of Coal Pulverization, *A.S.M.E. Annual Meeting.* By J. I. Yellott and A. D. Singh	Dec. 1945	42
Operating Experiences at the Marysville Power Plant of The Detroit Edison Co., *Midwest Power Conference.* By G. F. Campou	Apr. 1946	50
Operating History and Performance, *Experience with 2000-psi, 960-F Forced Circulation at Montaup,* A.S.M.E. Annual Meeting. By W. S. Patterson, G. U. Parks and W. F. Ryan	Dec. 1945	55
Operating Levels of Electric Utilities Expected to Remain Stable	July 1945	41
Ore Carrier Operates with 1450 Psi Steam Pressure. By H. F. Robinson and E. P. Worthen	Nov. 1945	47
Phenomena of Gas Flow	Sept. 1945	46
Plant Atkinson—High Pressure Addition. By E. C. Gaston	Mar. 1946	30
Power in 1946. By A. G. Christie	Feb. 1946	37
Power Plant of the Volta Redonda Steel Mill in Brazil. By Ralph D. Kircher	Sept. 1945	34
Power Plants in the Wake of Allied Bombing	July 1945	38
Power Subjects at the A.S.M.E. Spring Meeting	Apr. 1946	55

		PAGE
Problems in Power Plant Design, *Midwest Power Conference.* By Alf Kolflat	Apr. 1946	50
Products of Corrosion—Iron Oxides, Hydrated Oxides and Hydroxides. By R. C. Corey	June 1946	45
Progress in Steam Generation	Jan. 1946	36
Pumping Features of the Big-Inch Pipe Lines	July 1945	47
Recommended Standard Coal Sizing	Jan. 1946	45
Reducing Losses in Power Generation and Consumption, *A.S.M.E. Annual Meeting.* By H. D. Harkins, Frank L. Bradley, J. R. Michel and L. M. Goldsmith	Dec. 1945	43
Reduction of Turbine-Blade Deposits by Water Conditioning. By M. E. Fitze and F. H. Long	May 1946	41
Research in the Navy, *A.S.M.E. Annual Meeting.* By H. S. Bowen	Dec. 1945	44
St. Lawrence Power, *Midwest Power Conference.* By C. H. Giroux	Apr. 1946	54
Semi-Outdoor Steam Plants. By P. E. Gourdon, W. F. Friend and Louis Elliott	Apr. 1946	32
Smoke Abatement in Small Power Plants, *Midwest Power Conference.* By Carroll F. Hardy	Apr. 1946	52
Special Studies of the Feedwater-Steam System, *Experience with 2000-psi, 960-F Forced Circulation at Montaup,* A.S.M.E. Annual Meeting. By W. D. Bissell, B. J. Cross and H. E. White	Dec. 1945	58
Starting Pulverized-Coal-Fired Boilers. By Alan Ruch	Aug. 1945	36
Steam-Jet Ejectors—Their Selection and Operation. By J. C. Crownover	Jan. 1946	24
Steam Plant Serving New Refinery in Saudi Arabia	Feb. 1946	32
Storage of Coal	July 1945	42
Structural Changes in Carbon and Molybdenum Steel During Prolonged Heating at 900–1000 F. By G. V. Smith, R. F. Miller and C. O. Tarr	Sept. 1945	41
10,000-kw Gas Turbine Set	Oct. 1945	55
Tube Failures in High-Pressure Water-Tube Boilers. By John Van Brunt	July 1945	32
Tube Failures in High-Pressure Water-Tube Boilers (*A Supplement*). By John Van Brunt	Sept. 1945	44
Under-Bunker Conveyors. By A. J. Stock	June 1946	39
Under-Bunker Conveyors, *Midwest Power Conference.* By A. J. Stock	Apr. 1946	53
War Work Lends Impetus to Gas Turbine Development, *Midwest Power Conference.* By J. R. Carlson	Apr. 1946	53
Water Conditioning for 2000-Psi Pressure, *Experience with 2000-psi, 960-F Forced Circulation at Montaup,* A.S.M.E. Annual Meeting. By W. W. Cerna and R. K. Scott	Dec. 1945	60
Where the Gas Turbine Stands Today, *Midwest Power Conference.* By L. N. Rowley and B. G. A. Skrotski	Apr. 1946	53

AUTHORS—

		PAGE
Barkley, J. F.—*Example Sections of a Smoke Regulation Ordinance,* A.S.M.E. Annual Meeting	Dec. 1945	44
Baumann, K.—*Improvements in Thermal Efficiencies with High Steam Pressures and Temperatures*	Nov. 1945	39
Begg, G. A. J., G. Cooke and W. M. Hebblethwaite—*LaMont Boilers in Great Britain*—Operating Experience	Feb. 1946	48
Biller, R. E.—*Estimating Army Fuel Consumption,* A.S.M.E. Annual Meeting	Dec. 1945	44
Bissell, W. D., B. J. Cross and H. E. White—*Special Studies of the Feedwater-Steam System,* Experience with 2000-psi 960-F Forced Circulation at Montaup, *A.S.M.E. Annual Meeting*	Dec. 1945	58
Bissell, W. D. and E. B. Powell—*Instruments and Control Equipment,* Experience with 2000-psi 960-F Forced Circulation at Montaup, *A.S.M.E. Annual Meeting*	Dec. 1945	61
Bolton, F. W., F. Eberle, A. N. Hall, S. L. Hoyt, A. J. Smith, John Urban and R. D. Williams—*Graphitization of Steel Piping,* A.S.M.E. Annual Meeting	Dec. 1945	45
Bowen, H. S.—*Research in the Navy,* A.S.M.E. Annual Meeting	Dec. 1945	44
Bradley, Frank L., L. M. Goldsmith, H. D. Harkins and J. R. Michel—*Reducing Losses in Power Generation and Consumption,* A.S.M.E. Annual Meeting	Dec. 1945	43
Brown, Kenneth A., W. H. Brown, R. B. Engdahl, Carroll F. Hardy, A. A. Raymond and Ralph A. Sherman—*Locomotive Utilization of Solid Fuels,* A.S.M.E. Annual Meeting	Dec. 1945	47
Brown, W. H., Kenneth Brown, R. B. Engdahl, Carroll F. Hardy, A. S. Raymond and Ralph A. Sherman—*Locomotive Utilization of Solid Fuels,* A.S.M.E. Annual Meeting	Dec. 1945	47
Brownlee, W. R. and J. A. Elzi—*Electric Drives for Steam-Electric Generating Station Auxiliaries*	Jan. 1946	41
Campou, George F.—*Operating Experiences at the Marysville Power Plant of The Detroit Edison Company*—Ninth Midwest Power Conference	Apr. 1946	50
Carlson, J. R.—*War Work Lends Impetus to Gas Turbine Development,* Midwest Power Conference	Apr. 1946	53
Carr, T. H.—*Low-Pressure Ash Sluicing*	Dec. 1945	49
Cerna, W. W. and R. K. Scott—*Water Conditioning for 2000-psi Pressure,* Experience with 2000-psi, 960-F Forced Circulation at Montaup, *A.S.M.E. Annual Meeting*	Dec. 1945	60
Christie, A. G.—*Power in 1946*	Feb. 1946	37
Collins, Leo. F.—*Feedwater Treatment,* Midwest Power Conference	Apr. 1946	51
Cooke, G., G. A. J. Begg and W. M. Hebblethwaite—*LaMont Boilers in Great Britain*—Operating Experience	Feb. 1946	48
Corey, R. C.—*The Products of Corrosion*—Iron Oxides, Hydrated Oxides and Hydroxides	June 1946	45
Cross, B. J., W. D. Bissell and H. E. White—*Special Studies of the Feedwater-Steam System,* Experience with 2000-psi, 960-F Forced Circulation at Montaup, *A.S.M.E. Annual Meeting*	Dec. 1945	58
Crownover, J. C.—*Steam-Jet Ejectors—Their Selection and Operation*	Jan. 1946	24
Dickey, P. S.—*Automatic Control of Steam Generation and Auxiliaries,* Midwest Power Conference	Apr. 1946	50
Eberle, F., F. W. Bolton, A. N. Hall, S. L. Hoyt, A. J. Smith, John Urban and R. D. Williams—*Graphitization of Steel Piping,* A.S.M.E. Annual Meeting	Dec. 1945	45
Elliott, Louis, W. F. Friend and P. E. Gourdon—*Semi-Outdoor Steam Plants*	Apr. 1946	32
Elzi, J. A. and W. R. Brownlee—*Electric Drives for Steam-Electric Generating Station Auxiliaries*	Jan. 1946	41
Engdahl, R. B., Kenneth Brown, W. H. Brown, Carroll F. Hardy, A. A. Raymond and Ralph Sherman—*Locomotive Utilization of Solid Fuels,* A.S.M.E. Annual Meeting	Dec. 1945	47
Fish, M. J. and H. Liessenberg—*Expansion Problems Encountered in Design of Steam-Generating Units*	Aug. 1945	28
Fitze, M. E. and F. H. Long—*Reduction of Turbine-Blade Deposits by Water Conditioning*	May 1946	41
Fricke, George A.—*Evaporators and Their Operation*	Apr. 1946	39
Friend, W. F., Louis Elliott and P. E. Gourdon—*Semi-Outdoor Steam Plants*	Dec. 1945	32
Garland, C. M.—*Modernization of Small Power Plants,* Midwest Power Conference	Apr. 1946	52
Gaston, E. C.—*Plant Atkinson—High Pressure Addition*	Mar. 1946	30
Giroux, C. H.—*St. Lawrence Power,* Midwest Power Conference	Apr. 1946	54
Gladden, Charles S.—*Efficiencies with River Anthracite on Traveling-Grate Stokers*	Nov. 1945	34
Gourdon, P. E., Louis Elliott and W. F. Friend—*Semi-Outdoor Steam Plants*	Apr. 1946	32
Goldsmith, L. M., Frank L. Bradley, H. D. Harkins and J. R. Michel—*Reducing Losses in Power Generation and Consumption,* A.S.M.E. Annual Meeting	Dec. 1945	43
Hall, A. N., F. W. Bolton, F. Eberle, S. L. Hoyt, A. J. Smith, John Urban and R. D. Williams—*Graphitization of Steel Piping,* A.S.M.E. Annual Meeting	Dec. 1945	45
Hardy, Carroll F.—*Smoke Abatement in Small Power Plants,* Midwest Power Conference	Apr. 1946	52
Hardy, Carroll F., Kenneth A. Brown, W. H. Brown, R. B. Engdahl, A. A. Raymond and Ralph A. Sherman—*Locomotive Utilization of Solid Fuels,* A.S.M.E. Annual Meeting	Dec. 1945	47
Harkins, H. D., Frank L. Bradley, L. M. Goldsmith and J. R. Michel—*Reducing Losses in Power Generation and Consumption,* A.S.M.E. Annual Meeting	Dec. 1945	43
Haynes, Perry—*Fuel Handling and Oil Atomizing Features of a Small Industrial Boiler Plant*	Nov. 1945	41
Hebblethwaite, W. M., G. A. J. Begg and G. Cooke—*LaMont Boilers in Great Britain*—Operating Experience	Feb. 1946	48
Hoyt, S. L., F. W. Bolton, F. Eberle, A. N. Hall, A. J. Smith, John Urban and R. D. Williams—*Graphitization of Steel Piping,* A.S.M.E. Annual Meeting	Dec. 1945	45
Kircher, Ralph D.—*Power Plant of the Volta Redonda Steel Mill in Brazil*	Sept. 1945	34
Kolflat, Alf—*Problems in Power Plant Design,* Midwest Power Conference	Apr. 1946	50
Krueger, George H.—*Electric Steam Generator Installation at Salem Alumina Plant*	May 1946	24
Liessenberg, H. and M. J. Fish—*Expansion Problems Encountered in Design of Steam-Generating Units*	Aug. 1945	28
Long, F. H. and M. E. Fitze—*Reduction of Turbine-Blade Deposits by Water Conditioning*	May 1946	41
Lowenstein, H. M.—*Boiler Plant Serving Atomic Bomb Production*	Oct. 1945	36
Meissner, H. G.—*Grate Heat Release vs Combustion Rate in Stoker Calculations*	Oct. 1945	41
Michel, J. R.—Efficiency Bureau Standards	Jan. 1946	38
Michel, J. R., Frank L. Bradley, L. M. Goldsmith and H. D. Harkins—*Reducing Losses in Power Generation and Consumption,* A.S.M.E. Annual Meeting	Dec. 1945	43
Miller, R. F., G. V. Smith and C. O. Tarr—*Structural Changes in Carbon and Molybdenum Steel During Prolonged Heating at 900–1000 F*	Sept. 1945	41
Mumford, A. R.—*Instrumentation for the Study of Furnace Performance*	June 1946	35
Newman, L. E.—*Extraction Turbines for Industrial Power,* Midwest Power Conference	Apr. 1946	52
Parker, Leo T.—Court Decisions Involving Engineering	Oct. 1945	51
Parks, G. U., W. S. Patterson and W. F. Ryan—*Operating History and Performance,* Experience with 2000-psi 960-F Forced Circulation at Montaup, *A.S.M.E. Annual Meeting*	Dec. 1945	55
Patterson, W. S. and W. F. Ryan—*Operating History and Performance,* Experience with 2000-psi, 960-F Forced Circulation at Montaup, *A.S.M.E. Annual Meeting*	Dec. 1945	55
Plummer, G. A.—*LaMont Boilers in Great Britain*—Their Development	Feb. 1946	45
Potter, C. J.—*Europe's Coal Problem*	Nov. 1945	38
Powell, E. B. and W. D. Bissell—*Instruments and Control Equipment,* Experience with 2000-psi, 960-F Forced-Circulation at Montaup, *A.S.M.E. Annual Meeting*	Dec. 1945	61

PAGE

Raymond, A. A., Kenneth A. Brown, W. H. Brown, R. B. Engdahl, Carroll F. Hardy and Ralph A. Sherman—*Locomotive Utilization of Solid Fuels*, A.S.M.E. Annual Meeting....Dec. 1945 47
Rettaliata, J. T.—*Linear Relationship in Gas Turbines*, Midwest Power Conference....Apr. 1946 53
Ross, George F. and Leonard Wilkins—*Comparison of Forced- and Natural-Circulation Boilers*, A.S.M.E. Annual Meeting....Dec. 1945 41
Rowley, L. N. and B. G. A. Skrotski—*Where the Gas Turbine Stands Today*, Midwest Power Conference...Apr. 1946 53
Ryan, W. F. and W. S. Patterson—*Operating History and Performance*, Experience with 2000-psi, 960-F Forced Circulation at Montaup, *A.S.M.E. Annual Meeting*....Dec. 1945 55
Schroeder, W. C.—*German Synthetic Liquid Fuels*, A.S.M.E. Annual Meeting....Dec. 1945 45
Schweikart, H. C.—*Features of the Jennison Station, New York State Electric & Gas Corporation*....Dec. 1945 32
Scott, R. K. and W. W. Cerna—*Water Conditioning for 2000-psi Pressure*, Experience with 2000-psi, 960-F Forced Circulation at Montaup, *A.S.M.E. Annual Meeting*....Dec. 1945 60
Seelye, H. P.—*Future Requirements and Trends in the Use of Electric Power*, Midwest Power Conference....Apr. 1946 49
Sherman, Ralph A., Kenneth A. Brown, W. H. Brown, R. B. Engdahl, Carroll F. Hardy and A. A. Raymond—*Locomotive Utilization of Solid Fuels*, A.S.M.E. Annual Meeting....Dec. 1945 47
Singh, A. D. and J. I. Yellott—*New Method of Coal Pulverization*, A.S.M.E. Annual Meeting....Dec. 1945 42
Skrotski, B. G. A. and L. N. Rowley—*Where the Gas Turbine Stands Today*, Midwest Power Conference...Apr. 1946 53
Smith, A. J., F. W. Bolton, F. Eberle, A. N. Hall, S. L. Hoyt, John Urban and R. D. Williams—*Graphitization of Steel Piping*, A.S.M.E. Annual Meeting....Dec. 1945 45
Smith, G. V., R. F. Miller and C. O. Tarr—*Structural Changes in Carbon and Molybdenum Steel During Prolonged Heating at 900–1000 F*....Sept. 1945 41
Stangland, Glenn—*Magnetic Drive for Adjustable-Speed Torque Transmission*....June 1946 30
Stock, Arthur J.—*Under-Bunker Conveyors*, Midwest Power Conference....Apr. 1946 53
Under-Bunker Conveyors (Full Abstract)....June 1946 39
Swain, P. W.—*Atomic Energy*, Midwest Power Conference....Apr. 1946 49
Tao, L. C.—*A Mine-Mouth Tunnel-Type Power Plant in China*....Feb. 1946 42
Tarr, C. O., R. F. Miller and G. V. Smith—*Structural Changes in Carbon and Molybdenum Steels During Prolonged Heating at 900–1000 F*....Sept. 1945 41
Towse, H. R.—*Fabrication of Boiler Drums*
Part I—*Forming*....Mar. 1946 38
Part II—*Welding*....Apr. 1946 43
Part III—*Testing and Finishing*....May 1946 36
Urban, John, F. W. Bolton, F. Eberle, A. N. Hall, S. L. Hoyt, A. J. Smith and R. D. Williams—*Graphitization of Steel Piping*, A.S.M.E. Annual Meeting....Dec. 1945 45
Van Brunt, John—*Tube Failures in High-Pressure Water-Tube Boilers*....July 1945 32
Tube Failures in High-Pressure Water-Tube Boilers (A Supplement)....Sept. 1945 44
Wheeler, John Archibald—*The Future of Nuclear Power*. Mar. 1946 35
White, H. E., B. J. Cross and W. D. Bissell—*Special Studies of the Feedwater-Steam System*, Experience with 2000-psi 960-F Forced Circulation at Montaup, *A.S.M.E. Annual Meeting*....Dec. 1945 58
Wilkins, Leonard and George F. Ross—*Comparison of Forced- and Natural-Circulation Boilers*, A.S.M.E. Annual Meeting....Dec. 1945 41
Williams, R. D., F. W. Bolton, F. Eberle, A. N. Hall, S. L. Hoyt, A. J. Smith and John Urban—*Graphitization of Steel Piping*, A.S.M.E. Annual Meeting....Dec. 1945 45
Wilson, Warren E.—*A Theory of Rotary Pumps and Fluid Motors*, A.S.M.E. Annual Meeting....Dec. 1945 46
Yellott, John I. and A. D. Singh—*New Method of Coal Pulverization*, A.S.M.E. Annual Meeting....Dec. 1945 42
Zerban, A. H.—*Convenience Plus Accuracy in Heat Balance Computations*....June 1946 33
Zuccari, G. Coppa—*The Electric Power Situation in Italy*.Sept. 1945 39

REVIEW OF NEW BOOKS—

Applied Energy Conversion. By B. G. A. Skrotzki....Dec. 1945 65
Ball and Roller Bearing Engineering. By Dr. Arvid Palmgren....Nov. 1945 55
Boiler Room Questions and Answers. By Alex Higgins. Nov. 1945 55
Chemistry of Coal Utilization. Issued by The Division of Chemistry and Chemical Technology of the National Research Council....Jan. 1946 48
Code of Minimum Requirements for Instruction of Welding Operators—Part A—Arc Welding of Steel 3/16 to 3/4 In. Thick. Issued by the American Welding Society....Dec .1945 65
Efficient Use of Fuel, The. Prepared by the Ministry of Fuel and Power....Dec. 1945 65
Elementary Mechanics of Fluids. By Hunter Rouse..May 1946 49
Fluid Measurement. Edited by Louis Gess and R. D. Irwin....May 1946 49

PAGE

Fuel Conservation in Hospitals. Issued by the Council of Hospital Planning and Plant Operation of the American Hospital Association....Aug. 1945 51
Graphical Symbols. Issued by the American Standards Association....May 1946 49
Handbook of Water Conditioning. Compiled by W. H. and L. D. Betz....Jan. 1946 48
Inspection Handbook for Manual Metal-Arc Welding. Issued by the American Welding Society....May 1946 49
Marine Engineers' Handbook. Edited by Professor J. M. Labberton....Nov. 1945 55
Materials Handling Manual. Edited by M. M. Williamson and G. W. Williamson....May 1946 49
Physical and Chemical Properties of Pennsylvania Anthracite. Issued by The Anthracite Industries, Inc. Aug. 1945 51
Piping Handbook, 4th Edition. By Sabin Crocker....Aug. 1945 51
Smoke Abatement. Published by Smoke Prevention Association of America....May 1946 49
Standards List. Published by the American Standards Association....Aug. 1945 51
Statistical Thermodynamics. By Erwin Schrodinger..May 1946 49
Supplement to Book of A.S.T.M. Standards. Published by the American Society for Testing Materials....May 1946 49
Temperature Measurement. Issued by the Power Test Codes Committee of the A.S.M.E....Nov. 1945 55
Thermodynamic Properties of Air. By Joseph H. Keenan and Joseph Kaye....Aug. 1459 51

CLASSIFIED INDEX—

Auxiliaries

Automatic Control of Steam Generation and Auxiliaries, *Midwest Power Conference*. By P. S. Dickey....Apr. 1946 49
Electric Drives for Steam-Electric Generating Station Auxiliaries. By W. R. Brownlee and J. A. Elzi....Jan. 1946 41
Experience with 2000-psi, 960-F Forced-Circulation at Montaup, *Instruments and Control Equipment*, A.S.M.E. Annual Meeting. By W. D. Bissell and E. B. Powell....Dec. 1945 35
Rotary Pump Theory, *A.S.M.E. Annual Meeting*....Dec. 1945 41

Boilers

Chemical Cleaning of Boilers and Heat Exchangers....Mar. 1946 47
Cleaning Stoker-Fired Boilers....Feb. 1946 53
Electric Boiler Operates with Water of Low Specific Resistance....Nov. 1945 50
Electric Steam Generator Installation at Salem Alumina Plant. By George H. Krueger....May 1946 24
Fabrication of Boiler Drums. By H. R. Towse
Part I—Forming....Mar. 1946 35
Part II—Welding....Apr. 1946 43
Part III—Testing and Finishing....May 1946 36
Forced Circulation, *A.S.M.E. Annual Meeting*....Dec. 1945 41
Instrumentation for the Study of Furnace Performance. By A. R. Mumford....June 1946 35
LaMont Boilers in Great Britain
Their Development. By G. A. Plummer
Operating Experience. By G. A. J. Begg, W. M. Hebblethwaite and G. Cooke....Feb. 1946 48
Large Steam-Generating Unit in Russian Steel Mill....Feb. 1946 41
Phenomena of Gas Flow....Sept. 1945 46
Starting Pulverized-Coal-Fired Boilers. By Alan Ruch. Aug. 1945 36
Tube Failures in Water-Tube Boilers. By John Van Brunt....July 1945 32
Tube Failures in Water-Tube Boilers (*A Supplement*). By John Van Brunt....Sept. 1945 44

Coals

Adaptability of Fuel Burning Equipment to Available Coals....Mar. 1946 43
Analysis of Ash from U. S. Coals (*Technical Paper 679*). By W. A. Selvig and H. Gibson....Oct. 1945 57
Bituminous Coal Agreement, The....June 1946 53
Bituminous Coal Outlook Still Unsatisfactory....Sept. 1945 49
Europe's Coal Problem. By C. J. Potter....Nov. 1945 38
New Method of Coal Pulverization, *A.S.M.E. Annual Meeting*....Dec. 1945 41
Recommended Standard Coal Sizing....Jan. 1946 45
Storage of Coal....July 1945 42

Coal- and Ash-Handling Systems

Fuel Handling and Oil Atomizing Features of a Small Industrial Boiler Plant. By Perry Haynes....Nov. 1945 41
Low-Pressure Ash-Sluicing Systems. By T. H. Carr...Dec. 1945 49
Under-Bunker Conveyors. By A. J. Stock....June 1946 39

Combustion

PAGE

Adaptability of Fuel Burning Equipment to Available Coals....Mar. 1946 43
Combustion Control at University Power Plant....May 1946 35
Grate Heat Release vs Combustion Rate in Stoker Calculations. By H. G. Meissner....Oct. 1945 41

Corrosion

Products of Corrosion—Iron Oxides, Hydrated Oxides and Hydroxides. By R. C. Corey....June 1946 45

Fans

Magnetic Drive for Adjustable-Speed Torque Transmission. By Glenn Stangland....June 1946 30

Feedwater

Commerce Street Station of Wisconsin Electric Company, *Midwest Power Conference*. By M. E. Fitze and F. H. Long....Apr. 1946 51
Conference Stresses Feedwater and Boiler Water Problems....Nov. 1945 43
Electric Boiler Operates with Water of Low Specific Resistance....Nov. 1945 50
Evaporators and Their Operation. By George A. Fricke.Apr. 1946 39
Experience with 2000-psi 960-F Forced Circulation at Montaup
Special Studies of the Feedwater-Steam System. By W. D. Bissell, B. J. Cross and H. E. White
Water Conditioning for 2000-psi Pressure. By W. W. Cerna and R. K. Scott....Dec. 1945 55
Feedwater Treatment, *Midwest Power Conference*. By Leo F. Collins....Apr. 1946 49
Reduction of Turbine-Blade Deposits by Water Conditioning. By M. E. Fitze and F. H. Long....May 1946 41

Fuels

America's Future Oil Supplies....July 1945 45
Efficiencies with River Anthracite on Traveling-Grate Stokers. By Charles S. Gladden....Nov. 1945 34
German Synthetic Liquid Fuels, *A.S.M.E. Annual Meeting*....Dec. 1945 41
Ickes Analyzes the Fuel Situation....Aug. 1945 45
Secrets of German Synthetic Oil Production Revealed..July 1945 49

Gas Turbines

Gas Turbine for Locomotive Drive....Feb. 1946 51
Gas Turbine Under Test by the Navy....May 1946 31
New Marine Gas-Turbine Plant Described....Aug. 1945 41
10,000-Kw Gas Turbine Set....Oct. 1945 55
Where the Gas Turbine Stands Today, *Midwest Power Conference*. By L. N. Rowley and B. G. A. Skrotski..Apr. 1946 49

General Practice, Developments and Trends

Development of the LaMont Boiler. By G. A. Plummer....Feb. 1946 45
Electric Boiler Operates with Water of Low Specific Resistance....Nov. 1945 50
Post War Power Development in China....July 1945 50
Power in 1946. By A. G. Christie....Feb. 1946 37
10,000-kw Gas Turbine Set....Oct. 1945 55

Heat Balance

Convenience Plus Accuracy in Heat Balance Computations. By A. H. Zerban....June 1946 33

Installations

Battersea Station, London Power Company, London, England
Battersea Station....Mar. 1946 49
Cape Fear Station, Carolina Power & Light Company.
Semi-Outdoor Steam Plants. By P. E. Gourdon, W. F. Friend and Louis Elliott....Apr. 1946 32
Cecil Lynch Station, Arkansas Power & Light Company
Semi-Outdoor Steam Plants. By P. E. Gourdon, W. F. Friend and Louis Elliott....Apr. 1946 32

PAGE

Commerce Street Station, Wisconsin Electric Company
Feedwater, Midwest Power Conference. By M. E. Fitze and F. H. Long....Apr. 1946 49
Consolidated Edison Company, New York, N. Y.
Central Station Power Expansion in Metropolitan (New York) Area....Nov. 1945 49
Harvey Couch Station, Arkansas Power & Light Company
Semi-Outdoor Steam Plants. By P. E. Gourdon, W. F. Friend and Louis Elliott....Apr. 1946 32
Holliston Mills, Inc., Norwood, Mass.
Fuel Handling and Oil Atomizing Features of a Small Industrial Boiler Plant. By Perry Haynes....Nov. 1945 49
Jennison Station, New York State Electric & Gas Corp., Bainbridge, N. Y.
Features of the Jennison Station, New York State Electric & Gas Corp. By H. C. Schweikart....Dec. 1945 32
Kun-Ming Electricity Works
A Mine-Mouth, Tunnel-Type Power Plant in China. By L. C. Tao....Feb. 1946 42
Long Island Lighting Company, New York, N. Y.
Central Station Power Expansion in Metropolitan (New York) Area....Nov. 1945 49
Marysville Power Plant, The Detroit Edison Company
Operating Experiences at the Marysville Power Plant of The Detroit Edison Company, Midwest Power Conference. By G. F. Campou....Apr. 1946 49
Mountain Creek Station, Dallas Power & Light Company, Dallas, Texas
Semi-Outdoor Steam Plants. By P. E. Gourdon, W. F. Friend and Louis Elliott....Apr. 1946 32
Oak Ridge Power Plant, Manhattan Project, Oak Ridge, Tenn.
Boiler Plant Serving Atomic Bomb Production. By H. M. Lowenstein....Oct. 1945 36
Plant Atkinson, Georgia Power Company
Plant Atkinson—High Pressure Addition. By E. C. Gaston....Mar. 1946 30
Ras Tanura Refinery, Arabian-American Oil Company, Saudi, Arabia
Steam Plant Serving New Refinery in Saudi Arabia...Feb. 1946 32
Salem Alumina Plant, Defense Plant Corporation, Salem, Oregon
Electric Steam Generator Installation at Salem Alumina Plant. By George H. Krueger....May 1946 24
Sarasota Station, Florida Power & Light Company, Sarasota, Fla.
Semi-Outdoor Steam Plants. By P. E. Gourdon, W. F. Friend and Louis Elliott....Apr. 1946 32
Somerset Station, Montaup Electric Company, Fall River, Mass.
The Montaup Unit (Editorial)....Dec. 1945 31
Somerset Station, Montaup Electric Company, Fall River, Mass.
Experience with 2000-psi, 960-F Forced-Circulation at Montaup. Operating History and Performance. By G. U. Parks, W. S. Patterson and W. F. Ryan
Special Studies of the Feedwater-Steam System. By W. S. Bissell, B. J. Cross and H. E. White
Water Conditioning for 2000-psi Pressure. By W. W. Cerna and R. K. Scott
Instruments and Control Equipment. By W. D. Bissell and E. B. Powell....Dec. 1945 55
Sterlington Station, Louisiana Power & Light Company
Semi-Outdoor Steam Plants. By P. E. Gourdon, W. F. Friend and Louis Elliott....Apr. 1946 32
University of North Carolina, Chapel Hill, North Carolina
Combustion Control at University Power Plant....May 1946 35
Volta Redonda Steel Mill, Brazilian National Steel Company (Compania Siderurgical Nacional) Volta Redonda, Brazil
Power Plant of the Volta Redonda Steel Mill in Brazil. By Ralph D. Kircher....Sept. 1945 34
West Junction Station, Houston Lighting & Power Company, Houston, Tex.
Semi-Outdoor Steam Plants. By P. E. Gourdon, W. F. Friend and Louis Elliott....Apr. 1946 32

Marine Practice

Gas Turbine Under Test by the Navy....May 1946 31
High Pressure on Shipboard (*Editorial*)....Nov. 1945 33
New Marine Gas-Turbine Plant Described....Aug. 1945 41
Ore Carrier Operates with 1450 Psi Steam Pressure (*S.S. Venore*)....Nov. 1945 47

Navy Tests

Gas Turbine Under Test by the Navy....May 1946 31

Pulverized Fuel

Starting Pulverized-Coal-Fired Boilers. By Alan Ruch..Aug. 1945 36

PAGE

Research

Research to the Fore (*Editorial*) ..... Oct. 1945 35
Storage of Coal ..... July 1945 42
Structural Changes in Carbon and Molybdenum Steels During Prolonged Heating at 900–1000-F. By G. V. Smith, R. F. Miller and C. O. Tarr ..... Sept. 1945 41

Smoke Abatement

Smoke Regulation, A.S.M.E. Annual Meeting ..... Dec. 1945 41

Steam Pressures, Temperatures and Cycles

Expansion Problems Encountered in Design of Steam-Generating Units. By H. Liessenberg and M. J. Fish . Aug. 1945 28
Experience with 2000-psi, 960-F Forced Circulation at Montaup
Operating History and Performance. By G. U. Parks, W. S. Patterson and W. F. Ryan
Special Studies of the Feedwater-Steam System. By W. S. Bissell, B. J. Cross and H. E. White
Water Conditioning for 2000-psi Pressure. By W. W. Cerna and R. K. Scott
Instruments and Control Equipment. By W. D. Bissell and E. B. Powell ..... Dec. 1945 55
High Pressure on Shipboard (*Editorial*) ..... Nov. 1945 33
Improvements in Thermal Efficiencies with High Steam Pressures and Temperatures. By K. Baumann... Nov. 1945 39
Ore Carrier Operates with 1450-psi Steam Pressure (*S. S. Venore*) ..... Nov. 1945 47
Plant Atkinson—High-Pressure Addition. By E. C. Gaston ..... Mar. 1946 30

Stokers

Automatic Control for Spreader Stokers (*Editorial*) ..... Oct. 1945 35
Cleaning of Stoker-Fired Boilers ..... Feb. 1946 53
Efficiencies with River Anthracite on Traveling-Grate Stokers. By Charles S. Gladden ..... Nov. 1945 34
Grate Heat Release vs Combustion Rate in Stoker Calculations. By H. G. Meissner ..... Oct. 1945 41

Turbine Generators

Reduction of Turbine-Blade Deposits by Water Conditioning. By M. E. Fitze and F. H. Long ..... May 1946 41

Miscellaneous

A.S.M.E. Annual Meeting ..... Dec. 1945 41
A.S.M.E. Annual Meeting Program ..... Nov. 1945 51
A.S.M.E. Spring Meeting to Consider Power Problems . Mar. 1946 51
Annual Water Conference ..... Sept. 1945 51
Construction of Mild-Steel Arc-Weld Deposits ..... Sept. 1945 52
Court Decisions Involving Engineering. By Leo T. Parker ..... Oct. 1945 51
Efficiency Bureau Functions. By J. R. Michel ..... Jan. 1946 38
Electric Power Situation in Italy. By Giovanni Coppa Zuccari ..... Sept. 1945 39
Engineers Feature Power in Plan for Control of German Industry ..... Oct. 1945 47
Expansion Problems Encountered in Design of Steam-Generating Units. By H. Liessenberg and M. J. Fish . Aug. 1945 28
Future of Nuclear Power. By John Archibald Wheeler . Mar. 1946 35
High-Pressure on Shipboard (*Editorial*) ..... Nov. 1945 33
How the Navy Trains Boiler Operators ..... Jan. 1946 33
Increase in Industrial Power from 1939 to 1945 ..... Aug. 1945 38
Locomotive Utilization of Solid Fuels, *A.S.M.E. Annual Meeting* ..... Dec. 1945 41
Midwest Power Conference ..... Apr. 1946 49
Midwest Power Conference Program ..... Feb. 1946 55
Mine-Mouth, Tunnel-Type Power Plant in China. By L. C. Tao ..... Feb. 1946 42
Operating Levels of Electric Utilities Expected to Remain Stable ..... July 1945 41
Phenomena of Gas Flow ..... Sept. 1945 46
Post War Power Development in China ..... July 1945 50
Power in 1946. By A. G. Christie ..... Feb. 1946 37
Power Plants in the Wake of Allied Bombings over Europe (*photographs*) ..... July 1945 38
Power Subjects at the A.S.M.E. Spring Meeting ..... Apr. 1946 55
Progress in Steam Generation ..... Jan. 1946 36
Pumping Features of the Big Inch Pipe Lines ..... July 1945 47
Reducing Losses in Power Generation and Consumption, *A.S.M.E. Annual Meeting.* By H. D. Harkins, Frank L. Bradley, J. R. Michel and L. M. Goldsmith . Dec. 1945 43
Semi-Outdoor Steam Plants. By P. E. Gourdon, W. F. Friend and Louis Elliott ..... Apr. 1946 32
Steam-Jet Ejectors—Their Selection and Operation. By J. C. Crownover ..... Jan. 1946 24
Structural Changes in Carbon and Molybdenum Steels During Prolonged Heating at 900–1000 F. By G. V. Smith, R. F. Miller and C. O. Tarr ..... Sept. 1945 41

ADVERTISERS IN THIS ISSUE

Air Preheater Corporation, The 19
Armstrong Cork Company 27
Theo. Audel & Company, Publishers 43

Bailey Meter Company 6
Bayer Company, The 4
Beaumont Birch Company 53
W. H. & L. D. Betz 34
Bird-Archer Company, The 54
Buell Engineering Company, Inc. 28
Buffalo Forge Company 15

Clarage Fan Company 26
Clipper Mfg. Company 43
Cochrane Corporation 23
Combustion Engineering Company, Inc. ..... Second Cover, 8 and 9
Combustion Publishing Co., Inc.—Book Dept. 59

Dampney Company of America, The ... 5
De Laval Steam Turbine Company ..... 44 and 56
Diamond Power Special Corporation .... Third Cover

Edward Valves, Inc. 13
Electric Machinery Mfg. Company 21
Engineer Company, The 10
Ernst Water Column and Gage Company 56

Fairmont Coal Bureau ..... Fourth Cover
Flexitallic Gasket Company 25
Foster Engineering Company 18

Grinnell Company, Inc. 1

Hagan Corporation ..... 16 and 17
Hall Laboratories, Inc. ..... 16 and 17

Infilco Incorporated 12

Northern Equipment Company 2

Poole Foundry & Machine Company ... 56
Wm. Powell Company, The 20

Reliance Gauge Column Company, The 52
Research Corporation 24

Sauerman Bros., Inc. 57
Steel & Tubes Division, Republic Steel Corporation 11
Stock Engineering Company 55

Terry Steam Turbine Company, The ... 38

Vulcan Soot Blower Corporation 14

L. J. Wing Mfg. Company 7
Yarnall-Waring Company ..... 3 and 22